

TT-62-2825

Tezima, T., Mieshi, S., and others.
EXTRACTION PAR DESTILLATION. I. ÉQUILIBRE
ENTRE LES PHASES LIQUIDES ET GAZEUSES D'UN
SYSTÈME EAU-ACIDE ACÉTIQUE-ACIDE SULFURIQUE
LIQUIDE (Extractive distillation. I. The Vapor-Liquid
Equilibrium of the System Water-HOAc-H₂SO₄)
13p. (Foreign text included) 12 refs., CNRS-VIII 11-
509

I. Tezima, S.
II. Mieshi, S.
III. CNRS-VIII 11-509
IV. CNRS-VIII 11-509

Order from CNRS, ETC. or CNRS \$0.80 TT-62-28240

Trans. in French of Kagaku Kagaku Zasshi (Japan 1954
v. 55, no. 7, p. 492-494)

Other translations are available in English from ATS
\$10.00 as ATS-40P66, 6p and from SLA \$1.00 as
TT-62-16154.

DESCRIPTORS: *Solvent extraction, Distilling plants,
Liquids, Gases, Phase studies, Water Acetic acids,
Sulfuric acids.

(Chemistry--Physical, TTT, v. 11, no. 7)

Office of Technical Services
European Research Center

Furfuryl Alcohol Resins
3. Reaction of Furfuryl Alcohol with Maleic
Anhydride, by T. Shono and Y. Hachihama, 8 pp.
JAPANESE, per, Kogyo Kagaku Zasshi, Vol 56,
1953, pp 259-261.
F911388967
ABC LA-TR-67-85

Sci-Chemistry
Feb 68

347,517

Average Molecular Weight and Room-Temperature
Curing of the Precondensate, by T. Shono and
Y. Hachihama, 7 pp-
JAPANESE, per, Kogyo Kagaku Zasshi, Vol 56,
1953, pp 724-726.
F911388667
ABC LA-TR-67-86

Sci-Chemistry
Feb 68

347,498

Calcium-Hydrogen System. I. The Rate of
Absorption of Hydrogen by Metallic Calcium, by
Y. Kawana.

JAPANESE, per, J. Chem. Soc. Japan, Pure Chem. Sect.,
Vol. LXXI, No. 10, 1950, pp. 494-496.

ATS JJ-2044

Sci - Chem
Dec 59

104,059

Catalyst for the Conversion of Carbon Monoxide.
III, by H. Uchida, 5 pp.

JAPANESE, per, J Chem Soc Japan, Ind Chem Sect,
Vol IV, 1952, pp 521-522.

SLA 57-2083

Sci
Aug 58

70,359

DTIC-64-1458

Anahara, Teruzo and others.
THE STUDY OF α-OLEFINS. REPT. OF THE DE- I. Anahara, T.
HALOGENATION OF ALKYL HALIDES: THE HEAT II. Title: Dehalogenation of
DECOMPOSITION OF BORIC ESTER. [51 (Ser 62) 18p] III. Title: Dehalogenation
Order from SLA \$1.10 DTIC-64-1458

Trans. of Kyoto Kagaku Zasshi (Japan) 1952, v. 58,
p. 589-591. (Abstract available)

DESCRIPTORS: •Alkanes, Synthesis (Chemistry),
Halides, •Selenides, •Chlorides, •Boric acids,
Esters, Pyrolysis, Molecular isomerism.

In dehalogenating primary alkyl bromides and chlorides,
the product collected is mainly olefine and some
olefine by-product is obtained. In the synthesis of
dehalogenated compounds from primary alkyl bromides
and chlorides, alcoholic potash or NaOH in an alcoholic
solution will only give poor results. However, when
catalysts such as PBO, CaCl₂ or pyridine is used excell-
(Chemistry--Organic, T.T. v. 11, no. 11) (over)

Office of Technical Services

Synthesis of Acrylic Esters by the Nickel Carbonyl
Method. II. On Reaction Conditions and Product
Formation, by S. Suzuki, S. Yonezawa, K. Uno, H. Ito.
6 pp.

JAPANESE, per, J. Chem Soc Japan Ind Chem Sect, Vol. 5,
No 9, 1952, pp 607-608.

SIA 57-2312

Sci - Chemistry
Mar 58

(309) Vinyl Acetate: Part 5. Utilization of Methyl Acetate and Sodium Acetate Produced as By-Products in the Manufacture of Polyvinyl Alcohol (PVA), by B. Takigawa, K. Goto, B. Sato, Y. Sato.

JAPANESE, per, J Chem Soc Japan, Ind Chem Sect, Vol IV, 1952, pp 650-652. C.A. 49, 1550e, 1955.

Assoc Tech Sv 3705J

Sci
Aug 58

70, 841

61-20942

I. Furukawa, K.
II. Oda, R.

Furukawa, Kiyohisa and Oda, Ryohel.
A STUDY OF PHENYL GLYCIDYL ETHER. [1961]
[6] p. 2 refs.
Order from SLA \$1.10 61-20942

Trans. of [Kogyo Kagaku Zasshi] (Japan) 1952, v. 55,
p. 673-674.

DESCRIPTORS: *Glycidyl ethers, Ethers, *Phenyl
radicals, Synthesis, Polymerization, Catalysts,
Catalysis, *Resins.

The synthesis and the subsequent polymerization of this
compound are reported

(Materials--Plastics, TT, v. 7, no. 9)

Office of Technical Services

Synthesis of Acrylates With Nickel Carbonyl.
III. Reaction Conditions and Products.
S. Suzuki, et al.

JAPANESE JOURN. ORGANIC CHEMISTRY, Vol. 18, No. 11, 1952, pp 710-720.

105-060

Sci. Chem

Jan 60

105-060

Studies on Hexamine-Phenol Resin, Part VI. The
Decomposition of Trimethyl-1,3,5-Triazo-Cyclohexane
With Acid, by H. Tada, 9 pp.

JAPANESE, per, Kogyo Kagaku Zasshi, Vol LVI, 1953,
pp 88-90.

FDD/X-3935

Sci
Dec 59

TT-64-16039

Yoshida [Zen-ichi] and Oda, Ryohei].
SYNTHESIS OF ORGANIC FLUORESCENT COM-
POUNDS. PAPER 21. PREPARATION OF CYANURYL
CHLORIDE. [1964] 6p 11refs
Order from SLA \$1.10

TT-64-16039

Trans. of [Kogyo Kagaku Zasshi] (Japan) 1953, v. 56,
no. 2, p. 92-94.

I. Yoshida, Zen-ichi
II. Oda, R.
III. Title Preparation

(Chemistry--Organic, TT, v. 12, no. 3)

Office of Technical Services

Synthesis of ϵ -Caprolactam by the Schmidt
Reaction, by Masamoto Matsumoto, Japan

JAPANESE, per, J. Chem Soc, Japan, Ind. Chem Sect.
Vol LVI, 1953, pp 100-101.

ATC 100-101
CIA/PDD/XC-81

30,368

Scientific - Chemistry

Jan 56 GTS/DEX

IAC INTERNAL USE ONLY

62-10377

Furukawa, Kiyohiss, Nomura, Motoaki, and Oda, Ryohei.

STUDY OF THIOEPICHLOROHYDRIN. [1961][7]p. (foreign text included) 1 ref. Order from SLA \$1.10

62-10377

Trans. of [Kogyo Kagaku Zasshi] (Japan) 1955, v. 56, no. 3, p. 184-185.

DESCRIPTORS: Synthesis, *Thiourea, *Halohydrins, Sulfuric acid, Polymers, Polymerization, *Chlorides

A procedure is described for synthesizing thioepichlorohydrin from epichlorohydrin and thiourea. By treatment with a small quantity of sulfuric acid, the sulfide ring-opening polymerization of thioepichlorohydrin is easily effected while the degree of polymerization of the product is relatively low, all of the active chlorine remains in that condition, and by reacting with primary amine dehydrohalogenation or other amine compounds it yields what are considered to be new polymers. (Chemistry--Organic, 71, v. 8, no. 3)

- I. Furukawa, K.
- II. Nomura, M.
- III. Oda, R.

Office of Technical Services

Noda, Miyoshi.
ON THE MOLECULAR WEIGHT-DISTRIBUTION OF
ANILINE RESINS. Rept. no. 8 of Studies on Aniline
Resins. [1961] 9p. 4 refs.
Order from SLA mi\$1.80, pt\$1.80

61-10599

Trans. of Kogyo Kagaku Zasshi (Japan) 1953, v. 56,
no. 3, p. 198-200.

We synthesized three systems of resins, whose proportions of formaldehyde relative to 1 M of aniline were 0.5 M, 0.7 M, and 1.0 M, and discovered the following facts. We measured the mean molecular weights and viscosity changes and found that although the curves ascended in the beginning, they began to decrease gradually past a certain point. Fractional precipitation was conducted with respect to the aniline resin of 1 : 0.7 mole ratio and its integral distribution curve and mass distribution curve were sought; it was seen as a result that the integral distribution curve stood up progressively in resins of after 45
(Materials--Plastics, TT, v. 5, no. 12) (over)

61-10599

1. Anilines--Chemical reactions
 2. Formaldehyde--Chemical reactions
 3. Resins--Molecular weight
- I. Noda, M.
II. Title: Studies...

148583

Office of Technical Services

Reaction Mechanisms of Benzene System Hydrocarbons,
by H. Sasayama, 13 pp

Revised Edition
JAPANESE, par, ~~J. Chem. Soc. Japan~~, Vol LVI, No. 4,
April 1953, pp 281-284

SLA Tr 57-1988

Sci

Jun 58

65,921

Condensation of Reaction of Formaldehyde With Phenols:1, by Shoji Seto, Hitaru Horiuchi.

Kogyo Kagaku Zasshi
JAPANESE, per, ~~J. Chem. Soc.~~, Vol LVI, No 5, 1953, pp 354-355.

TFA3/STB/T 4313

13,266

Scientific - Chemistry

Study of the Reaction of Ammonia and Carbon Disulfide
Under Pressure. II. Theoretical Discussion of the
Formation Reaction of Ammonium Thiocyanate, by S.
Kodama, S. Fukushima, K. Fukui, 7 pp.

Kogyo Kagaku Zasshi
JAPANESE, per, J Chem Soc Japan Div Chem Sect, Vol
LVI, pp 396-397, 1953.

SIA 3293

Sci - Chem
Aug 58

70,603

Electrolytic Titanium, by Shinso Okada,
Makoto Kawane, Mitsumao Takahashi, Tomoyasu Hashino,
7 pp.

JAPANESE, per, J. Chem Soc, Japan, Ind Chem Sect,
Vol LVI, No 6, 1953, pp 410-411.

CIA/FLD/XK-67
IAC INTERNAL USE ONLY

Scientific - Min/Metals
Engineering

30,803
Feb 56 CTS/DEX

61-10832

Akiyoshi, Saburo, Matsuda, Tadamu, and Murata,
Junichi.
DIRECT SYNTHESIS OF N-VINYLPHTHALAMIDE BY
THE NORMAL PRESSURE VAPOR PHASE METHOD.
Rept. 1 of Studies on N-Vinyl Compounds. [1961] 8p.
5 refs.
Order from SLA \$1.10 61-10832

Trans. of Kogyo Kagaku Zasshi (Japan) 1953, v. 56,
no. 6, p. 440-441.

DESCRIPTORS: *Resins, Synthesis, Vinyl radicals,
Amines, *Phthalimides, Polymers, Catalysts.

I. Akiyoshi, S
II. Matsuda, T.
III. Murata, J.
IV. Title: Studies...

161612

Office of Technical Services

(Materials--Plastics, TT, v. 6, no. 1)

The Effect of Added Organic Compounds on the Decomposition of Hexamine With Acid, by H. Tada, 3 pp.

JAPANESE, per, Kogoyo Kagaku Zasshi, Vol LVI, 1953, pp 445.

FDD/X-3935

Sci
Dec 59

Decomposition of 1,5-Dinitroso-Endomethylenetetrazo-
cyclooctane With Acid, by H. Tada, 9 pp.

JAPANESE, per, Kogoyo Kagaku Zasshi, Vol LVI, 1953,
pp 506-508.

FDD/X-3935

Sci
Dec 59

63-10926

1. Tadenuma, H.

Tadenuma, Hachiro.
EFFECTIVE COMPONENTS AS BINDING MATERIALS
FOR CARBON POWDER IN COAL TAR PITCH.
[1963] [12]p. (table fig. omitted).
Order from SLA \$1.60

63-10926

Trans. of [Kogyo Kagaku Zasshi] (Japan) 1953, v. 54,
p. 516-519.

DESCRIPTORS: *Pitch (Materials), Tar, Carbon,
Powders, *Adhesives.

(Materials--Adhesives, TT, v. 10, no. 5)

Office of Technical Services

61-10600

Noda, Miyoshi.
ON VISCOSITY-CHANGES AT THE TIME OF FOR-
MATION OF ANILINE RESINS. Rept. no. 9 of Studies
on Aniline Resins. [1961] 7p. 4 refs.
Order from SLA ml\$1.80, ph\$1.80 61-10600

Trans. of Kogyo Kagaku Zasshi (Japan) 1953, v. 56,
no. 7, p. 554-556.

We measured the viscosities of aniline hydrochloride-
formalin water solutions and discovered the following
facts. When the concentration of formaldehyde relative
to aniline was increased progressively, emulsification
took place and the solution solidified subsequently to a
jelly-like state. At approximately the time that emulsi-
fication could be observed by the naked eye, the vis-
cosity of the solution rose abruptly. When we held the
quantity of formaldehyde relative to aniline constant and
investigated the influence of the glass wall at 50, 40,
30, 20, and 10°C. It was seen to have no influence. The
activation energy was calculated from the curve of
(Materials--Plastics, TT, v. 5, no. 12) (over)

1. Aniline--Chemical reactions
 2. Formaldehyde--Chemical reactions
 3. Resins--Viscosity
- I. Noda, M.
 - II. Title: Studies...

148553

Office of Technical Services

The Decomposition of 1,5-Diacetyl-3,7-Endomethylene
Terazocyclooctane With Acid, by H. Tada, 7 pp.

JAPANESE, per, Kogoyo Kagaku Zasshi, Vol LVI, 1953,
pp 603.

FDD/X-3935

Sci
Dec 59

Cyanoethylation of Viscose Rayon, by N. Kuroki,
7 pp.

JAPANESE, per, J Chem Soc Japan, Ind Chem
Sect, Vol LVI, No 9, 1953, pp 704-707.
(legn copy only)

SLA F7-2677

Sci
Aug 58

70,839

Catalysts for the Catalytic Cracking of Petroleum,
VI, VII, VI. Special Method of Preparing Silica-
Alumina Catalysts. VII. Acidity of Catalysts, by
N. Hara, M. Ikenabe, K. Mita, J. Ouo, 27 pp.

Kagaku
JAPANESE, per, ~~Haru Kagaku~~ Zasshi, Vol LVI, 1953,
pp 720-724.

SLA Tr 2533

Sci - Chemistry, Fuels
Oct 57

54, 1125

The Characteristics of Fluidised Particles.
IV. Particle Distribution in Fluidised Beds,
by T. Omae, J. Furukawa, 24 pp.

JAPANESE, per, Kogyo Kagaku Zasshi, Vol LVI,
1953, pp 727-731.

AEC NP Tr-438

Sci - Nuc Phys
Aug 60

123,971

M. Hayakawa

*Quantitative gas analysis by mass spectrometer. No. 3:
Quantitative analysis of carbon monoxide and nitrogen.
9 pp.*

*JAPANESE, Kogyo Kagaku Zasshi, Vol. 74, 1953, pp 752-754
NASA TT P 14, 322*

sept 72

Condensation Reaction of Formaldehyde with Phenols:
5. Gelling Ability of Alkaline Catalysts,
by S. Seto, K. Ozaki, UNCLASSIFIED

Kogyo Kagaku Zasshi
JAPANESE, ~~per, J. Chem. Soc. Japan~~, Vol LVI,
No 10, 1953, pp 615-317.

TPA3/FIB T 4314

17,673

Scientific - Chemistry

The Characteristics of Fluidised Particles. V.
Methods of Controlling the Distribution of
Particles and Bulk Density in Fluidised Beds, by
T. Omae, J. Furukawa, 15 pp.

JAPANESE, per, Kogyo Kagaku Zasshi, Vol LVI,
1953, pp 824-826.

ABC NP Tr-444

Sci - Phys

Oct 60

125,847

Bubbles in Polymethyl Methacrylate,
by A. Mizuike.
JAPANESE, per, Kogyo Kagaku Zasshi, Vol 56,
1953, pp 894-895.
NLL Ref: 5828.4F 1966 (11174)

Sci-Chem
Aug 66

308,517

The Decomposition of 1,5-Endomethylene-3,7-Bisazophenyl
Tetrazocyclooctane With Acid and the Rate Determining
Step of the Decomposition of Hexamine With Acid, by
H. Tada, 6 pp.

JAPANESE, per, Kogyo Kagaku Zasshi, Vol LVI, 1953,
pp 924.

FDD/X-3935

Sci
Dec 59

Chromatography for Phenolic Resin Intermediates, by
H. Seto, K. Ozaki,

Kogyo
JAPANESE, per, ~~Nippon Kag Zasshi~~, Vol ~~14~~ *(56)*,
1953, pp 936-938

TPA3/TIB Tr No T 4347

Scientific - Chemistry

Mar 55 CTS

21,830

Synthesis of Tetraline-Phosphoric Acid and
Polystyrene-Phosphoric Acid, by H. Akashi,
S. Hamabana, R. Oda, pp 11 pp.

JAPANESE, par, Kogyo Kagaku Zasshi, Vol LVI,
No 12, Dec 1953, pp 970-971.

NHK Tr No 5-12

Scientific - Chemistry
Aug 1956 (FIS/dax)

37,333

Surface of Chemistry of Glass III,
Page 400-401 LVI
JAPANESE, par, ~~J Chem Soc Japan~~, Vol VII,
1953, pp 1770-1778.

ASLIB-OB39

Sci

Aug 58

72,475

London, 1

Separation of CC and ...
JAMESON, per, London ...
... 758-754
*1234 12 14, 622

June 78

Studies on Synthesis of Protein-Like
Substances, by J. Noguchi.

JAPANESE, per, Kogyo Kagaku Zasshi,
Vol LXXIV, 1953, pp 961-965.

CSIRO 3167

Sci - Chem

Feb 62

186,561

Characteristics of Fluidized Particles.
VII. Particle Energy and Temperature in a
Fluidized Bed System, 14 pp.

JAPANESE, per, Kogyo Kagaku Zasshi, Vol XVII,
1954, pp 6-9. 9200954

ABC UCHL-10-852

Sci. - Phys
Jan 63

220, 859

Uchida, S., Ito, Y., and Kobayashi, E.
SULFURIC ACID TREATMENT OF THE REACTION
PRODUCT OF NH_3 WITH SO_3 FOR THE PREPARA-
TION OF SULFAMIC ACID. Pt. 5 of Study of the
Anhydrous Reaction Between Ammonia and Sulfur
Trioxide. [1961] 6p.
Order from ATS \$9.50

ATS-42N54]

Trans. of Kogyo Kagaku Zasshi (Japan) 1954, v. 57,
no. 1, p. 18-20.

DESCRIPTORS: *Sulfuric acid, *Ammonia, Sulfur
compounds, Oxides, *Sulfamic acids, Preparation,
Reaction kinetics.

(Chemistry--Physical, TT, v. 7, no. 2)

61-25625

- I. Uchida, S.
- II. Ito, Y.
- III. Kobayashi, E.
- IV. Title: Study...
- V. ATS-42N54]
- VI. Associated Technical
Services, Inc.,
East Orange, N. J.

Office of Technical Services

The Decomposition Reaction of Hexamine and
its Derivatives XI: Decomposition of Hexamethy-
lene-Tetramine in Buffer Solutions, by
H. Tada, 7 pp.

JAPANESE, per, Kogyo Kagaku Zasshi, Vol LVII,
1954, pp 37-~~40~~ 646541
40.

Picatinny Arsenal 37
OTIA 3297

Sci - Chem

90,941

Jul 59

Particle Size Distribution of Phosphorescent
Substances and Their Aggregates in Solution, by
S. Hionoya, T. Ishakawa, 8 pp.

JAPANESE, per, J Chem Soc Japan, Ind Chem Sect,
Vol LVIX, 1954, pp 89, 90.

AEC SCL Tr 182

Sci - Physics
Jun 58

65,975

Studies on Sulfite Pulp Waste Liquor. Pt III
On the Thermal Denaturation of Ligninsulfonic
Acid, by Y. Kyogoku.
JAPANESE, per, Kogyo Kagaku Zasshi, Vol 57,
No 1, 1954, pp 53-56.
SLA TT-66-10272

Sci-Mech Indus Civ Mar Engr
Nov 66

313,385

Okahara, R. R., Numa, S. A., and Watase, To. O.
FRACTIONAL ETHANOLYSIS OF ETHYL TRI-
CHLOROSILANE. [1963] 18p
Order from K-H \$18.00 K-H 3871a

Trans. of Kogyo Kagaku Zasshi (Japan) 1954, v. 57
[no. 2] p. 118-121.

DESCRIPTORS: *Silanes, Chlorides, Ethyl radicals,
Decomposition.

(Chemistry--Organic, TT, v. 10, no. 10)

63-22472

1. Title: Ethyl tri-chlorosilane
- I. Okahara, R. R.
- II. Numa, S. A.
- III. Watase, T. O.
- IV. K-H-3871a
- V. Kresge-Hooler Science Library Associates, Detroit, Mich.

Office of Technical Services

Furukawa, Kiyohisa, Suda, Hideaki, and Oda, Ryohel.
SYNTHETIC RESINS FROM DIEPOXY COMPOUNDS
AND ACID AMIDES. [1961] 7 p. 3 refs.
Order from SLA \$1.10

61-20934

Trans. of Kogyo Kagaku Zasshi (Japan) 1954, v. 57,
no. 2, p. 152-154.

DESCRIPTORS: Resins, *Epoxy resins, Synthesis,
Glycidyl ethers, Ethers, Carboxylic acids, Acids,
Amides, Epoxides, Chemical reactions, Polymerization

Diglycidyl ethers were reacted with mono- and dicar-
boxylic acid amides. Thermal autopolymerization was
induced in one compound containing both epoxide ring
and acid amide group in the same molecule. The re-
actions in these three cases yields new synthetic resins.

(Materials--Plastics, TT, v. 7, no. 9)

61-20934

I. Furukawa, K.
II. Suda, H.
III. Oda, R.

Office of Technical Services

Study on the Derivatives of Nitrochlorobenzene
(9th Report) Concerning the Preparation of
p-Nitro-phenstole From p-Nitrochlorobenzene,
by Osamu Manabe, Hachiro Hiyama, 6 pp.

JAPANESE, ¹⁹⁵⁴ ~~Shon~~ Kagaku Zasshi, Vol LVII, No. 1 (76)
1954, pp 164-166. ^

NOT RELEASABLE TO FOREIGN
NATIONALS

CIA/FDD XI-297

7, 658

Sci - Chemistry
May 1957 CTS/3ex

IAC INTERNAL USE ONLY

Oxidation of Benzene With Air at High Pressure.
Part I. Effect of Operating Variables and Purity
of Materials on the Formation of Phenol, by
Y. Hosaka.

JAPANESE, par, Kogyo Kagaku Zasshi, Vol 57,
No 3, 1954, pp 197-200.

ATS-4766

Sci
Dec 68

30,700

61-10491

Akiyoshi, Saburo, Hashimoto, Shuzoobu, and Takami, Kazuhide.
SYNTHESIS OF TEREPHTHALIC ACID POLYAMIDES.
Rept. 3 of Studies on Synthetic High Polymers from Terephthalic Acid and its Derivatives. [1960] [11 p. 15 refs.
Order from SLA mi\$2.40, pb\$3.30 61-10491

Trans. of Kogyo Kagaku Zasshi (Japan) 1954, v. 57, no. 3, p. 212-214.

Ethylenediamine, tetramethylenediamine, hexamethylenediamine, octamethylenediamine and dodecamethylenediamine were synthesized and polymerized with terephthalic acid. The best method for obtaining polyamides was to react terephthalic acid with the diamine in water and condense the resulting diamine ammonium terephthalate in p-cresol at 215°C. Solubility was demonstrated from hexamethylenediamine on, and products with a high degree of polymerization were obtained. The melting points ranged between 300° to (over)

- 1. Amide polymers--Synthesis
- 2. Terephthalic acid--Condensation
- 3. Aminoacids--Condensation
 - I. Akiyoshi, S.
 - II. Hashimoto, S.
 - III. Takami, K.
 - IV. Title: Studies...

1954

Office of Technical Services

Synthetic Stabilizers for Photographic Emulsions,
Part 6, The Effect of Phenyltetrazoles on Photo-
graphic Emulsions, by K. Murofuku, H. Ichido,
11 pp.
JAPANESE, per. Kogyo Kagaku Zasshi, No 57, 1954,
pp 232-234.
F911044168
AEC-TR-6923

Sci-Chem
Mar 68

349.325

59-16008

Tada, Hokoji.
DECOMPOSITION REACTIONS OF HEXAMINE AND
ITS DERIVATIVES. XIII. REACTION VELOCITY
CONSTANT OF THE DECOMPOSITION REACTION
OF HEXAMETHYLENE TETRAMINE AND THE
NEUTRAL SALT EFFECT. May 59 [7] p. 11 refs.
Picatinny Arsenal Trans. no. 38. CCT-1641
Order from ODS or SLA 51.10 59-16008

I. Tada, H.
II. PA Trans-38
III. CCT-1641
IV. Consultants: Custom
Translations, Inc.
New York

Trans. of Kogyo Kagaku Zasshi (Japan) 1954, v. 57
p. 369-370

DESCRIPTORS: *Hexamethylenetetramine, Decompo-
sition, Velocity. †Chemical reactions, Hydrogen ion
concentration. †Neutralization. Methyl radicals,
Amines.

It is shown that the value of k obtained for a second
order mechanism is in a proportional relationship to
 f_{H^+} . The changes undergone by k are explained. (as
(Biological Sciences--Pharmacology, TT, v. 8, no. 3)
(over)

5-14-62
Office of Technical Services

Oxidation of Benzene With Air at High Pressure.
Part 2. Composition and Properties of Oxidation
Products, by Y. Hosaka.
JAPANESE, par, Kogyo Kagaku Zasshi, Vol 57,
No 4, 1954, pp 282-284.
ATS-4767

Sci
Dec 68

368,701

Effects of Various Weights of Zinc Acetate
Added to the Active Carbon on the Vinyl Acetate
Synthesis, by Toshi Takigawa.

JAPANESE, per, Kogyo Kagaku Zasshi, 1954, vol. 57,
no. 6, pp. 471-474.

GA G40

Mat/Metal
Aug 66

307,695

Ishida, Kiyoharu.
TERNARY EQUILIBRIA BETWEEN SOME LIQUID
HYDROCARBONS AND LIQUID AMMONIA. PT. 2.
A SYSTEM OF n-HEXANE, CYCLOHEXANE AND
LIQUID AMMONIA AND A SYSTEM OF n-HEPTANE,
OCTENE-1, AND LIQUID AMMONIA. [1962] 5p.
10 refs.
Order from SLA \$1.10 63-10475

Trans. of Kogyo Kagaku Zasshi (Japan) [1954] v. 57,
no. 7, p. 479-481.
Another trans. is available from ATS \$10.00 as
ATS-60M40J: [1960] 5p.

DESCRIPTORS: *Chemical equilibrium, Hydro-
carbons, *Ammonia, *Hexanes, *Cyclohexanes,
*Heptanes, Solvents, Ethylenes, Separation, Liquids.

Studies were made of the equilibrium of the system of
n-hexane, cyclohexane and liquid ammonia at 20° C
(Chemistry--Organic, TT, v. 10, no. 2) (over)

63-10475

- I. Title: Ternary systems
- I. Ishida, K.
- II. Title: System ...

Office of Technical Services

63-16224

Suzuki, Akira; Miyazaki, Osamu and others.
ON LENGTHY MANUFACTURING TEST ON PHOS-
PHATIC FERTILIZERS BY COAL GAS KILN TYPE
FURNACE. REPT. I. MANUFACTURING PHOSPHATIC
FERTILIZERS BY THIS FURNACE. [1963] 9p. (figs.
tables omitted) 4 refs.

Order from SLA \$1.10

63-16224

Trans. of Kogy Kagaku Zasshi (Japan) 1954, v. 57,
no. 4, p. 261-264.

DESCRIPTORS: *Phosphates, *Fertilizers, Furnaces,
Coal, Manufacturing methods, Chemical engineering.

(Engineering--Chemical, TT, v. 10, no. 4)

- I. Suzuki, A.
- II. Miyazaki, O.
- III. Title: Manufacturing ...

Office of Technical Services

Effect of Pressure, Temperature, Time and Moisture on
the High Pressure Synthesis of Ammonium Sulfamate, by
Y. Ito.

JAPANESE, per, Kogyo Kagaku Zasshi, Vol LVII,
No 11, 1954, pp 800-801.

ATS-50N54J

Sci

Mar 62

Vol VII, No 2

61-20933

Funakubo, Eiichi, Matsumoto, Saketaro, and
Kishigawa, Isamu.

STUDIES ON COAL-TAR CONSTITUENTS AND RE-
LATED COMPOUNDS. 32. RAPID METHOD OF
DETERMINING ANTHRACENE IN CARBAZOLE OR
ANTHRAQUINONE. [1961] 17p. (2 figs. omitted)
9 refs.

Order from SLA \$1.60

61-20933

Trans. of Kogyo Kagaku Zasshi (Japan) 1954, v. 57
[no. 12] p. 919-922.

DESCRIPTORS: *Coal tar, *Carbazoles, *Anthra-
quinone, Quinones, *Anthracenes, Determination,
Quantitative analysis, Chromatographic analysis,
Titration, Oxidation.

The chlorobenzene partition-titration method was the
simplest accurate method for determining anthracene
in low-anthracene material.

I. Funakubo, E.
II. Matsumoto, S.
III. Kishigawa, I.
IV. Title: Rapid...

(Chemistry--Analytical, TT,
v. 7, no. 7)

Office of Technical Services

Komori, Saburo; Nagashima, Takavuki, and
Arasugi, Ei.
PREPARATION OF CETYL VINYL ETHER. [1963] 9p.
Order from K-H \$9.00 K-H 12427 a

Trans. of Kogyo Kagaku Zasshi (Japan) 1954, v. 57,
p. 932-934.

DESCRIPTORS: *Vinyl radicals. *Ethers.

(Chemistry--Organic. TT, v. 10, no. 2)

63-17283

- I. Title: Cetyl radicals
- I. Komori, S.
- II. Nagashima, T.
- III. Arasugi, E.
- IV. K-H-12427-a
- V. Kresge-Hooker Science
Library Associates,
Detroit, Mich.

Office of Technical Services

Rapid Method of Detecting Minute Quantities of
Chloride Dioxide by Means of Detector Tubes,
by T. Kitagawa, Y. Kobayashi.

JAPANESE, per ¹⁻²⁻²⁴ ~~Nippon Kagaku Kaishi~~, Vol LVII, No 3
pp 177-179, Mar 1955.

ASLIB-GB39

Sci - Chen
Aug 58

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Application of Ultrasonics to Pearl Polymerization
by K. Masuda.

JAPANESE, paper J. Chem Soc Japan Ind Chem Sec,
Vol LVII, 1954, pp 210-212.

INEDOC-F1738

Sci

Arg 59

95, 353

Part 4. Synthesis of Terephthalic acid Derivatives
and Their Polycondensation. I., by S. Akiyoshi,
M. Okamura, S. Bashimoto, 7 pp.

JAPANESE, part, J Chem Soc Japan Ind Chem Sect (Kogyo
Kagaku Zasshi) Vol LVII, No 3, pp 214-216, 1954.

ASROC Tech Serv -95H11J

Sci - Chem
Aug 58

90,508

Study on the Derivatives of Nitrochlorobenzene
(10th Report). Study on the Mechanism of Manganese
Dioxide Action on the Preparation of p-Nitrophenol,
and also on the Aceto-Compound, the By-product
of the Reaction, by Osamu Masaki, Hachiro Hiyama,
7 pp.

Kogyo
JAPANESE, per, ~~Kogyo~~ Kagaku Zasshi, Vol LVII,
No 3, (38), 1954, pp 216-218.

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CIA/FID XI-298 *87, 667*

Sci - Chemistry
May 1957 CTS/Gex

IAC INTERNAL USE ONLY

Synthetic Stabilizers for Photographic Emulsions, Part 6, by K. Murofuku, H. Ichido, E. Yoshikawa.

JAPANESE, per, Kogyo Kagaku Zasshi, Vol 57, No 3, 1954, pp 232-234.

*AEC

Sci - Materials
Jun 67

Polymerization Reactions Initiated by Polyradicals
by T. Saegusa, 6 pp.

JAPANESE, per, J Chem Soc Japan Ind Chem Sect,
Vol LVII, No 3, 1954, pp 243-245.

SLA 51-2674

Sci
Aug 50

68, 341

Electron and X-Ray Diffraction Studies on Nickel
Films. II. Action of Alkaline Solution on
Nickel, by T. Saitama, H. Kusabe, W. Sakai, 6 pp.

Physical Chemistry
JAPANESE, ~~SEE~~ ~~per~~, ~~J. Chem Soc~~, Vol LVII, 1954,
pp 257, 258.

S.L.A. Tr 57-28 253

Physics
Sci ~~Electronics~~
May 57

48,750

Decomposition of 1,3,5-Trinitroso-Triazocyclohexane
With Acid, by H. Tada, 9 pp.

JAPANESE, per, Kogoyo Kagaku Zasshi, Vol LVII, 1954,
pp 279.

FDD/X-3935

Sci
Dec 59

Synthesis of Polymethylol Phenols and Determination
of Resole Components by Paper Chromatography, by
T. Yamasaki.

Yamamoto
JAPANESE, per, ~~J. Chem Soc Japan~~, Vol LVII, No 4,
1954, pp 307-309.

TPA3/TIB
T 4393

Scientific - Chemistry
CTB 75/Dec 55

29,351

Two-Dimensional Paper Chromatography of Resoles,
by M. Seto, K. Ozaki.

Kogyo Kagaku Zasshi
JAPANESE, per, ~~J. Chem Soc Japan~~, Vol LVII, No 4,
1954, pp 309-311.

TPA3/TIB
T 4394

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Scientific - Chemistry
CIS 75/Dec 55

Electron and X-Ray Diffraction on Nickel Anode.
III. Study on Anode Products by X-Ray Diffraction,
by T. KKY Seiyama, M. Abe, W. Sakai, 9 pp.

JAPANESE, *Journal of Physical Chemistry*,
~~per, J. Chem Soc, JVII~~, 1954, pp 343-346.

S.L.A. Tr 57-254

Sci - *Physics*
~~Electronics~~
May 57

48,752

Silicon Carbide and Monohitic Resistors.
II. Oxidation Rates of Silicon Carbides, by
T. Nakatogawa.
JAPANESE, per, Kogyo Kagaku Zasshi,
Vol LVII, No 12, 1954, pp 348-350.
NASA TT F-10,648

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Sci-Phys

200 220

Decomposition Reactions of Hexamine and Its
Derivatives XIII: Reaction Velocity Constant
of the Decomposition Reaction of Hexamethy-
lene Tetramine and the Neutral Salt Effect,
by H. Tada, 5 pp.

JAPANESE, per, Kogyo Kagaku Zasshi, Vol LVII,
1954, pp 369-370. 646539

Picatinny Arsenal 38
OTIS 3285

Sci - Chem
Jul 59

90,937

Physico-Chemical Studies of High-Molecular
Electrolytes. III. Study of Ion Exchanges. Pt I.
Infrared Spectrophotometric Determination
of Ion Exchange Equilibrium Constants, by Hiroshi
Sobue, Yonaho Tabata.

JAPANESE, per, Nihon Kagaku Zasshi, (Journal of the
Chemical Society of Japan, Industrial Chem Sec),
Vol LVII, 1954, pp 469-471.

28,454

AEC Tr 2269

Assoc Tech Svc 15G7J

Nov 55 CTS/DEX
Scientific - Chemistry

Ternary Equilibria Between ~~Some~~ Some Liquid Hydrocarbons and Liquid Ammonia. Pt. 2. A System of n-Hexane, Cyclohexane and Liquid Ammonia and a System of n-Heptane, Octene-1, and Liquid ~~Some~~ Ammonia, by K. Ishida, 5 pp.

JAPANESE, per, Kogyo Kagaku Zasshi, Vol LVII, No 7, 1954, pp 479-481.

ATE-60440J

Sci
Mar 62
Vol 4, No 4

187, 766

Studies on Calcium Tungstate Fluorescent
Substances, by N. Nishikawa, A. Watanabe,
M. Kagimoto, N. Yamaguchi, S. Kawazu,
11 pp.

JAPANESE, per, J. Chem. Soc. Ind and Chem
Sect. Vol LVII, 1954, pp 530-533.

T.I.L./T 4574

Sci - Chemistry, x-ray fluorescence

May 1956

33,875

Ident.-Phase Oxidation of ...
Factors: Influence of Reaction ...
Exposure Period (1), Oxygen Absorption ...
Composition of ...
Period (2), Influence of Reaction ...
ature on the Composition of Oxidation ...
by Hiroko Ohta, Sachiyo ...

JAPANESE, par, Kogyo Kagaku ...
No. 9, 1964, pp 341-343, and ...

SLA 49-1741-

3rd
Jan 60
Vol. 2, No. 7

Studies on the Polymerization of Acrylates.
Pt. 1. Effect of Various Factors on the
Polymerization, by S. Suzuki, H. Ito.
JAPANESE, per, Kogyo Kagaku Zasshi, Vol 57,
No 9, 1954, pp 658-660.
ATS-76889J

Sci-Chem
Aug 66

309,224

Basic Studies On High Frequency Titration. The
Form Of the Basic Curve, by K. Nakano.

JAPANESE, per, Chemical Society Of Japan. Journal,
Vol LXXV, 1954, pp 776-782.

CSIRO

Oct. 62

Ito, Y.
SYNTHESIS OF AMMONIUM SULFAMATE UNDER
PRESSURE. [1961] 7p.
Order from ATS \$10.30 ATS-49N54J

Trans. of Kogyo Kagaku Zasshi (Japan) 1954, v. 57,
no. 11, p. 797-800.

DESCRIPTORS: *Ammonium radicals, *Sulfamates,
Synthesis.

(Chemistry--Physical, TT, v. 7, no. 2)

61-25451

I. Ito, Y.
II. ATS-49N54J
III. Associated Technical
Services, Inc.,
East Orange, N. J.

Office of Technical Services

Ito, Y.
EFFECT OF PRESSURE, TEMPERATURE, TIME
AND MOISTURE ON THE HIGH PRESSURE
SYNTHESIS OF AMMONIUM SULFAMATE. [1961]
Sp.
Order from ATS \$7.00 ATS-50N54J

Trans. of Kogyo Kagaku Zasshi (Japan) 1954, v. 57,
no. 11, p. 800-801.

DESCRIPTORS: *Ammonium radicals, *Sulfamates,
Synthesis, Moisture, Temperature, Time, Reaction
kinetics.

(Chemistry--Physical, TT, v. 7, no. 2)

61-25468

I. Ito, Y.
II. ATS-50N54J
III. Associated Technical
Services, Inc.,
East Orange, N. J.

Office of Technical Services

Synthesis and Application of Diacyrylic Acids
Containing Furan or Tetrahydrofuran Rings, by T.
Shono, Y. Hachihama.

JAPANESE, par, J Chem Soc Japan, Ind Chem Sect,
Vol LVII, 1954, pp 891-899.

Assoc Tech Serv JJ-1465
" " " 48123J

Sci - Chem

Apr 59

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Study on the Autooxidation of Terpinolene, Rept. i,
by Fushizak, Yasaburo, Saito, Masumi. 5p.
JAPANESE, per, Kogyo Kagaku Zasshi, Vol 57, No 12,
1954, pp 897-898.
SLA TT-64-16655

Sci/Chemistry
Jul 66

305,985

Preparations of Hydroxylamine Using Liquid
Sulfur Dioxide, by S. Abe et al.

JAPANESE, *ibid.*, J. Chem Soc (Ind Chem Sect),
Vol LVIII, 1955, pp 100-102.

36,076
CIA/FDD XX-158

Scientific - Chemistry

Jun 56 CTS/dex

IAC INTERNAL USE ONLY

Quantitative Conversion of Cellulose Xanthate
to Methylcellulose, by S. Kuriyama,

Kogyo Kagaku Zasshi

JAPANESE, ~~part of Chemical Abstracts, Int. Chem~~
Sect, Vol. LVIII, No 2, 1955, pp 110-112.

AMS JJ-2236

Sci - Chem

May 60

115,480

Effect of Polymerization Conditions of Vinyl
Acetate on the Branching of Polyvinyl Alcohol,
by J. Ukida, R. Maito, T. Kominami, 10 pp.

Keyw. Lact. n. Farnic
JAPANESE, J Soc Chem Ind Japan, Vol LVIII, No 2,
1955, pp 128.

SLA Tr 2476

Sci - Chemistry

53,310

Sep 57

Synthesis and Structure of Dodecylbenzene,
by T. Asahara, Y. Takagi, 14 pp.

JAPANESE, par, Kogyo Kagaku Zasshi,
Vol. LVIII, No 2, 1955, pp 147-153.

ATB-28M42F

ATS/JJ-258F
192,618

Sci
Vol. IV, No 7
Apr 1962

Polymerization of Acrylic acid and the
Effect of PH on it, by H. Ito.
JAPANESE, per, Kogyo Kagaku Zasshi, Vol 58
No 3, 1955, pp 198-199.
ATS-71830J

Sci-Materials
Oct 55

313,38

62-34190

Ino, S.
STUDY OF ALUMINA FOR SYNTHETIC GEM MATERIAL: PURIFICATION OF AMMONIUM ALUM BY RECRYSTALLIZATION. [1962] 7p.
Order from ATS \$8.50 ATS-37P63J

Trans. of Kogyo Kagaku Zasshi (Japan) 1955, v. 58, p. 181-183.

DESCRIPTORS: *Aluminum compounds, *Oxides, *Synthetic gems, Ammonium radicals, *Purification, Crystallization.

(Physics - Solid State, TT, v. 9, no. 1)

- I. Ino, S.
- II. ATS-37P63J
- III. Associated Technical Services, Inc., East Orange, N. J.
- IV. Title: Purification...

Office of Technical Services

Polymerization of Acrylic acid and the
Effect of PH on it, by H. Ito.
JAPANESE, per, Kogyo Kagaku Zasshi, Vol 58
No 3, 1955, pp 194-196.
ATS-75S89J

Sci-Materials
Oct 66

313,362

Separation of Pure Isomeric Cresols by Urea
Addition, By Ichiro Anazawa.
JAPANESE, per, Kogyo Kagaku Zasshi, 1955,
Vol. 58, no. 3, pp. 231-233.
SA G41

Eng
Aug 66

307,675

Insoluble High Polymers Containing Thio Groups,
by Y. Nakamura.
JAPANESE, per, Kogyo Kagaku Zasshi, Vol 58,
1955, pp 269-273.
HTC-69-16280-07C

Sci-Chem
Feb 70

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Separation of Urea Resin Intermediates by
Means of Paper Chromatography, by M. Hamada,
11 pp.

JAPANESE, per, J Chem Soc Japan, Ind Chem Sect,
Vol. LVIII, 1955, pp 285-291/

SLA 22. x
57-2794

Sci

68,403

Jul 58

Kozaki, Shigeru, Kido, Tsunekazu and others.
**EXTRACTION OF PHENOL WITH AQUEOUS SODIUM
XYLENESULFONATE SOLUTIONS.** Pt. I of the Ex-
traction of Coal-Tar Acids with Hydrotropic Solutions.
[1961] 22p. (3 figs. omitted) 45 refs.
Order from SLA \$2.60 61-20939

Trans. of Kogyo Kagaku Zasshi (Japan) 1955, v. 58,
p. 307-312.

DESCRIPTORS: Coal tar, Acids, Hydrocarbons,
*Phenols, Solvent extraction, Solubility, *Sodium com-
pounds, *Xylenes, *Sulfonates, Organic solvents,
Solvent action.

Measurement of the solubilities of 17 different phenols
and hydrocarbons in 30% aqueous sodium xylenesulfo-
nate solution showed the phenols to be extremely
soluble in this solvent, while in contrast the solubili-
(Chemistry--Organic, TT, v. 7, no. 8) (over)

61-20939

- I. Kozaki, S.
- II. Kido, T.
- III. Title: Extraction ...

Office of Technical Services

Reaction of Anionoid Reagents With High Polymers
Containing Halogen and Nitro Groups, by
Y. Nakamura.

JAPANESE, per, J. Chem Soc (Ind Chem Sect),
Vol LVIII, 1955, pp 442-448.

36,078
CIA/FDD XX-159

Scientific - Chemistry

Jun 56 CTS/dex

IAC INTERNAL USE ONLY

62-22159

Ninomiyu, K. and Sasaki, K.
CHANGE IN THE COMPOSITION OF ELECTRO-
LYTES IN DIRECT CURRENT ELECTROLYSIS.
Pt. 2 of Studies of the Mechanism of Electrolytic
Polishing of Carbon Steel and Stainless Steel. [1962]
7p.
Order from ATS \$12.00 ATS-66P61J

Trans. of Kogyo Kagaku Zasshi (Japan) 1955, v. 58,
no. 8, p. 547-550.

DESCRIPTORS: *Electrolytic polishing, Electrolytes,
*Electrolysis, Direct current, *Steel, Stainless steel

(Metallurgy, TT, v. 8, no. 7)

- I. Ninomiya, K.
- II. Sasaki, K.
- III. ATS-66P61J
- IV. Title: Studies...
- V. Associated Technical
Services, Inc., East
Orange, N. J

Office of Technical Services

Ninomiya, K. and Sasaki, K.
CHANGE IN THE COMPOSITION OF ELECTROLYTES
IN ALTERNATING CURRENT ELECTROLYSIS.
Pt. 3 of Studies of the Mechanism of Electrolytic
Polishing of Carbon Steel and Stainless Steel. [1962]5p.
Order from ATS \$8. 25 ATS-67P61]

Trans. of Kogyo Kagaku Zasshi (Japan) 1955, v. 58,
no. 8, p. 550-551.

DESCRIPTORS: *Electrolytic polishing, Electrolytes,
*Electrolysis, Alternating current, *Steel, Stainless
steel

(Metallurgy, TT, v. 8, no. 7)

62-22147

I. Ninomiya, K.
II. Sasaki, K.
III. ATS-67P61]
IV. Associated Technical
Services, Inc., East
Orange, N. J.

ATS 77-41.0

Office of Technical Services

Ninomiya, K. and Sasaki, K.
EFFICIENCY OF GAS EVOLUTION. Pt. 4 of Studies
of the Mechanism of Electrolytic Polishing of Carbon
Steel and Stainless Steel. [1962] 6p.
Order from ATS \$8.65 ATS-68P61J

Trans. of Kogyo Kagaku Zasshi (Japan) 1955, v. 58,
no. 8, p. 551-554.

DESCRIPTORS: *Electrolytic polishing, Gases, *Steel,
Stainless steel

(Metallurgy, TT, v. 8, no. 7)

62-22155

- I. Ninomiya, K.
- II. Sasaki, K.
- III. ATS-68P61J
- IV. Title: Studies.
- V. Associated Technical
Services, Inc., East
Orange, N. J.

ATS 334151

Office of Technical Services

Inugai, K. and Hooel, K.

ÉTUDE DES DÉRIVÉS FLUORÉS DE L'ANILINE
EMPLOYÉS COMME BASES DE NAPHTOL (Fluorine
Derivatives of Aniline as Bases for Naphthol). 9p.
10 refs. FX-14.

Order from OTS, ETC or CNRS \$0.80 62-26510

Trans. in French of Kogyo Kagaku Zasshi (Japan) 1955,
v. 58, p. 592.

DESCRIPTORS: *Fluorides, *Anilines, Naphthalenes,
Synthesis (Chemistry), *Naphthols.

(Chemistry--Organic, TT, v. 10, no. 9)

62-26510

- I. Inugai, K.
- II. Hooel, K.
- III. F/X-14
- IV. Centre National de la
Recherche Scientifique,
Paris (France)

Office of Technical Services

Okabe, Jiro and Yahama, Yoshikazu.
REDUCTION OF NITROLIGNIN. [1963] [15p] (foreign
text included) 11 refs
Order from SLA \$1.60 TT-63-18583

Trans of Kogyo Kagaku Zasshi (Japan) [1955] v. 58,
no. 10, p. 777-781. (Abstract available)

DESCRIPTORS: *Lignin, *Nitrogen compounds,
Reduction (Chemistry), Amines, *Dyes, Volumetric
analysis.

By reducing nitrolignin under high pressure by using
Raney nickel, lignin derivatives containing an amino
group were obtained. The aminolignin was converted
into a diazo and further iodized. The amount of the
amino group within nitrogen contained in lignin was
calculated from the amount of nitrogen of the lignin
converted into a diazo and the amount of iodine of
(Chemistry--Organic, TT, v. 11, no. 3) (over)

TT-63-18583

1. Title: Aminolignin
2. Title: Nitrolignin
- I. Okabe, J.
- II. Yahama, Y.

Office of Technical Services